| Expt. No. 08   | Page No. 63       |
|--|-------------------|
| Expt. Name Inalyze the iris dataset and  | _ Date :          |
| Expt. Name Analyze the iris dataset and Usualise using heatmap   |                   |
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| Ain:<br>Write a python code to visualize<br>dataset using a heatmap  | 10                |
| White a private coal to visualize  | the Tris          |
| dataset using a marmap   |                   |
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| Procedure:   |                   |
| Lange a suffere To a la state of   |                   |
| 1. open a python IDLE/notebook   |                   |
| 2 Start by improverse the graning  | 1:1 navia: 1      |
| 2. Start by importing the required 'pandas' and 'matphotlib.pyplot'.   | Moraries. Seaborn |
| paratus and marpiec (16. pypier.   | 11-0-1-1          |
| 3. I pad the This detaset into a   | On day Date Cham  |
| 3. Load the Iris dataset into a Ensure the file path is correct.   | ranues suarrome.  |
| grant in grant see that.   |                   |
| 4. Use seaborn's 'heatmap' function  | ones His          |
| correction matrix computed from the  | TataFrame's       |
| numeric columns to this function. Spen   | city count = True |
| numeric columns to this function. Specto display the corelation values with  | in the cells.     |
|  |                   |
| 5. Choose a colorman (eq: Summer   | ) to define the   |
| 5. Choose a colormap (eg: Summer's   | NOT legal         |
| Que la constantina de la constantina della const |                   |
| 6. Use Matplotlib's 'plt. show()'  | function to       |
| 6. Use Matplotlib's 'plt. show()' display the heatmap.   | U                 |
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| Expt. No.  | Page No           |
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| Expt. Name   | Date :            |
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| code:  |                   |
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| inner seahour as en  |                   |
| import seabour as sns  |                   |
| import pandas as pa  |                   |
| import pandas as pd<br>import matplotlib.pypilot as plt  |                   |
|  |                   |
| ins = pd. read_csv ('/content/ins.csv')  |                   |
|  |                   |
| a backward into some formulation only - T  | and annat True    |
| sns. heat map ( iris. coir (numeric -only = To comap = 'summer')   | rue), whole="rue, |
| cmap = 'summer')   |                   |
| plt. show().   |                   |
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| 11   |                   |
| esult:   |                   |
| Thus the iris dataset is analy reatmap is created successfully.  | sed and a         |
| Thus the iris dataset is arrang  | year and          |
| materials is control successfully.   |                   |
| and the state of t |                   |
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| )  |                   |

white a pythen code to visualize the Instudtuo

| The state of the s |
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| dule:  |
| 1. open 28 - 04 lant EDLE / ristillade 1 - 8   |
| 1. State by importing the required libraries: season.  |
| 3. Lead the This dataset into a reader Data Frame.   |
| 1. Use bookies hamal from the supervances  |
| inpay the 1 concludes a laber obsidis 8. one- Ells.  |
| Sepal-length Sepal-width petal-length petal-width  |

6. Use matphetisis pet. shows Gunetien to 4 the heatmap.